

# Minchao Cui

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

745  
citations

471509

17  
h-index

552781

26  
g-index

46  
all docs

46  
docs citations

46  
times ranked

250  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of a reshaping rivet to reduce the protrusion height and increase the strength of clinched joints. <i>Journal of Materials Processing Technology</i> , 2016, 234, 1-9.	6.3	59
2	Mechanical properties of the two-steps clinched joint with a clinch-rivet. <i>Journal of Materials Processing Technology</i> , 2016, 237, 361-370.	6.3	56
3	Investigation of mechanical behavior of the reshaped joints realized with different reshaping forces. <i>Thin-Walled Structures</i> , 2016, 107, 266-273.	5.3	48
4	Experimental investigation of the mechanical reshaping process for joining aluminum alloy sheets with different thicknesses. <i>Journal of Manufacturing Processes</i> , 2017, 26, 105-112.	5.9	46
5	Enhancement and stabilization of plasma using collinear long-short double-pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 142, 14-22.	2.9	46
6	An experimental study on the compressing process for joining Al6061 sheets. <i>Thin-Walled Structures</i> , 2016, 108, 56-63.	5.3	39
7	Numerical and experimental investigations of the reshaped joints with and without a rivet. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 2039-2051.	3.0	37
8	Experimental study on the height-reduced joints to increase the cross-tensile strength. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2655-2662.	3.0	30
9	Improved Analysis of Manganese in Steel Samples Using Collinear Long-Short Double Pulse Laser-Induced Breakdown Spectroscopy (LIBS). <i>Applied Spectroscopy</i> , 2019, 73, 152-162.	2.2	28
10	Investigation of the height-reducing method for clinched joint with AL5052 and AL6061. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2269-2276.	3.0	27
11	Effects of geometrical parameters on the strength and energy absorption of the height-reduced joint. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3533-3541.	3.0	26
12	Determination of friction conditions in cold-rolling process of shaft part by using incremental ring compression test. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 3823-3831.	3.0	25
13	Variation of the friction conditions in cold ring compression tests of medium carbon steel. <i>Friction</i> , 2020, 8, 311-322.	6.4	24
14	Deformation mechanism and performance improvement of spline shaft with 42CrMo steel by axial-infeed incremental rolling process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 2621-2630.	3.0	22
15	Machining deformation prediction of large fan blades based on loading uneven residual stress. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 4345-4356.	3.0	22
16	Carbon detection in solid and liquid steel samples using ultraviolet long-short double pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 167, 105839.	2.9	20
17	Finite element analysis on axial-pushed incremental warm rolling process of spline shaft with 42CrMo steel and relevant improvement. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2477-2490.	3.0	19
18	Experimental research on the compressed joints with different geometrical parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019, 233, 174-181.	2.4	16

#	ARTICLE	IF	CITATIONS
19	Shot peening parameters optimization based on residual stress-induced deformation of large fan blades. <i>Thin-Walled Structures</i> , 2021, 161, 107467.	5.3	15
20	Comparative investigation of auxiliary processes for increasing the strength of clinched joints. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2018, 232, 165-172.	2.5	13
21	Fraunhofer-type signal for underwater measurement of copper sample using collinear long-short double-pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 168, 105873.	2.9	13
22	Quantitative analysis of trace carbon in steel samples using collinear long-short double-pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 191, 106398.	2.9	12
23	Finite element modeling and analysis for the integration of rolling and extrusion process of spline shaft. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401668858.	1.6	11
24	Feasibility Investigation for Online Elemental Monitoring of Iron and Steel Manufacturing Processes using Laser-Induced Breakdown Spectroscopy. <i>ISIJ International</i> , 2020, 60, 971-978.	1.4	11
25	Remote open-path laser-induced breakdown spectroscopy for the analysis of manganese in steel samples at high temperature. <i>Plasma Science and Technology</i> , 2019, 21, 034007.	1.5	10
26	Signal Improvement for Underwater Measurement of Metal Samples Using Collinear Long-Short Double-Pulse Laser Induced Breakdown Spectroscopy. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	8
27	Process parameter determination of the axial-pushed incremental rolling process of spline shaft. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3001-3011.	3.0	7
28	Study on warm forming effects of the axial-pushed incremental rolling process of spline shaft with 42CrMo steel. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2018, 232, 555-565.	2.5	7
29	Experimental study on surface integrity changes during turning-ultrasonic impact of nickel alloy 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 1359-1371.	3.0	7
30	Determination of manganese in submerged steel using Fraunhofer-type line generated by long-short double-pulse laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 180, 106210.	2.9	5
31	Evaluation of 3D measurement using CT-TDLAS. <i>Modern Physics Letters B</i> , 2019, 33, 1940018.	1.9	4
32	Sample Temperature Effect on Steel Measurement Using SP-LIBS and Collinear Long-short DP-LIBS. <i>ISIJ International</i> , 2020, 60, 1724-1731.	1.4	4
33	Performance of AC servo axial-infeed incremental warm rolling equipment and simulated production of spline shafts. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2089-2097.	3.0	3
34	Effects of tool wear on machined surface integrity during milling of Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 2497-2509.	3.0	3
35	Experimental study on the axial-infeed incremental warm rolling process for spline shaft production. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 2177-2186.	3.0	3
36	The Experimental Study of Axial In-feed Incremental Rolling Process of Spline Shaft. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018, 54, 199.	0.5	3

#	ARTICLE	IF	CITATIONS
37	Quantitative Analysis of Manganese in Underwater Steel Samples Using Longâ€“Short Double-Pulse Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2021, 75, 1364-1373.	2.2	3
38	Rapid Analysis of Steel Powder for 3D Printing Using Laser-Induced Breakdown Spectroscopy. ISIJ International, 2022, 62, 883-890.	1.4	3
39	Classification of Aviation Alloys Using Laser-Induced Breakdown Spectroscopy Based on a WT-PSO-LSSVM Model. Chemosensors, 2022, 10, 220.	3.6	3
40	Current density effects on plasma emission during plasma electrolytic oxidation (PEO) on AZ91D-magnesium alloy. Modern Physics Letters B, 2020, 34, 2040025.	1.9	2
41	The Numerical Analysis and Experimental Study of Flux Switching Motor/Generator in HEV Applications. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2016, 52, 100.	0.5	2
42	Performance of flux switching integrated starter-generator system with dual-mode control circuit. International Journal of Mechatronics and Automation, 2018, 6, 94.	0.2	1
43	Study on the 12-10 flux switching integrated-starter-generator for hybrid electric vehicle application. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2018, 232, 1667-1676.	1.9	1
44	Sulfur Detection in Coke by Laser-Induced Breakdown Spectroscopy. ISIJ International, 2022, 62, 875-882.	1.4	1
45	Study on the control circuits of Flux Switching Integrated Starter and Generator for HEV application. , 2017, , .		0
46	Study and improvements on the rolling loads of axial incremental rolling process for spline shaft based on finite element method. , 2017, , .		0